

(19)日本国特許庁 (JP)

(12) 公開実用新案公報 (U)

(11)実用新案出願公開番号

実開平6-55544

(43)公開日 平成6年(1994)8月2日

(51)Int.Cl.<sup>5</sup>

A 47 L 7/02  
5/28

識別記号

府内整理番号  
7114-3B  
7114-3B

F I

技術表示箇所

審査請求 有 請求項の数1 書面 (全2頁)

(21)出願番号 実願平4-92744

(22)出願日 平成4年(1992)12月8日

(71)出願人 592263436

洪 永豊

台湾台北市北平東路28號3F之2

(72)考案者 洪 永豊

台湾台北市北平東路28號3樓之2

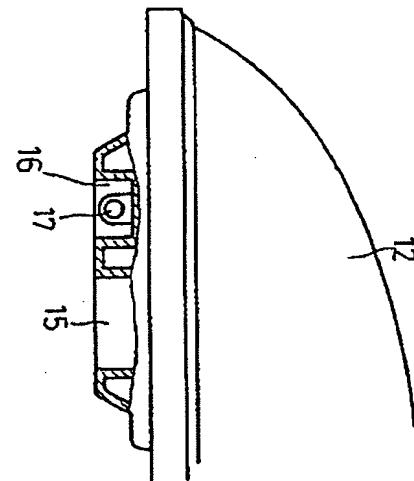
(74)代理人 弁理士 竹本 松司 (外2名)

(54)【考案の名称】 紫外線殺菌機能付き電気掃除機

(57)【要約】

【目的】 床の吸塵と殺菌を同時にを行うことができる紫外線殺菌機能付き電気掃除機を提供する。

【構成】 直立部(11)と水平部(12)から成る直立型電気掃除機であり、直立部は傾斜調整ができ、直立部上端に把手を設け、直立部底部に車輪を設け、水平部の底部には吸塵口を設け、吸塵口の前に取り付け溝を設けて紫外線殺菌灯を設け、吸塵と殺菌を同時にを行うことを特徴とする。



(2)

実開平6-55544

1

【実用新案登録請求の範囲】

【請求項1】 直立部と水平部をピボットで連結した直立型電気掃除機であり、直立部は傾斜調整ができ、直立部上端に把手を設け、直立部底部に車輪を設け、水平部の底部には吸塵口を設け、吸塵口の前に取り付け溝を設けて紫外線殺菌灯を設け、吸塵と殺菌を同時に行うことの特徴とする紫外線殺菌機能付き電気掃除機。

【図面の簡単な説明】

【図1】 本考案の側面図である。

【図2】 本考案の底面図である。

2

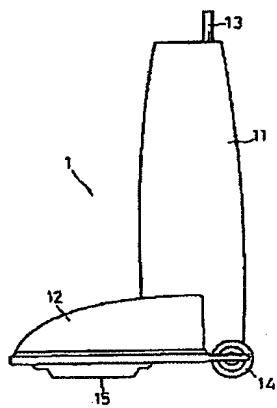
\* 【図3】 本考案の側面図の一部を断面図とした図である。

【符号の説明】

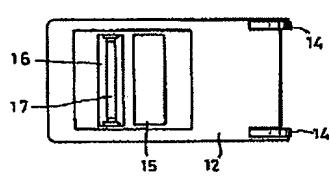
(1) 掃除機	(11) 直立部	(12) 水平部	(1)
(3) 把手	(14) 車輪	(15) 吸塵口	(1)
(6) 取り付け溝	(16) 紫外線殺菌灯		

\*10

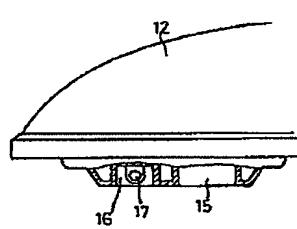
【図1】



【図2】



【図3】



**【考案の詳細な説明】****【0001】****【産業上の利用分野】**

本考案は、殺菌と吸塵作用を設けた紫外線殺菌機能付き電気掃除機に関する。

**【0002】****【従来の技術】**

従来より、病院、医薬品製造等の設備においては、病原菌の伝播経路を遮断し、また伝染原因を減らすために、通常、定期的に掃除と殺菌を行っており、床等の表面を吸塵処理後に紫外線による殺菌作業がなされていた。

**【0003】****【考案が解決しようとする課題】**

上記従来の技術では吸塵と殺菌が別々に行われるため、手間が掛かり、時間やコストがかかった。

**【0004】****【課題を解決するための手段】**

本考案では掃除機の底に紫外線殺菌灯を設け、床に掃除機を滑らせて床表面の吸塵を行うと同時に殺菌を行う。

**【0005】****【作用】**

掃除機の底に紫外線殺菌灯を設けたことにより、掃除と殺菌が同時に、簡単に行える。

**【0006】****【実施例】**

図1に示されように、本考案の掃除機(1)は、従来の直立型掃除機と同様、直立部(11)および水平部(12)から構成され、直立部(11)と水平部(12)はピボットにより連結され、直立部(11)は傾斜角度調整が行える。直立部(11)の上端には把手(13)を設け、直立部(11)の底部の後端には車輪(14)を設ける。また、水平部(12)の底には床表面に開口する吸塵口(15)を設ける。

**【0007】**

本考案の特徴は、掃除機（1）底部の吸塵口（15）の前に長みぞを設けて取り付け溝（16）とし、この取り付け溝（16）内に紫外線殺菌灯（17）を設ける。吸塵作業が行われるとき、この紫外線殺菌灯（17）も同時に床表面に紫外線を照射することにより、吸塵と殺菌が同時に行われる。また、警報器の回路を設けて紫外線殺菌灯（17）が切れた場合の警報機能を持たせてもよい。

**【0008】****【考案の効果】**

本考案の紫外線殺菌機能付き電気掃除機により、床の吸塵と殺菌を行なうことができる。

## \* NOTICES \*

JP0 and NCIPI are not responsible for any damages caused by the use of this translation.

1. This document has been translated by computer. So the translation may not reflect the original precisely.
2. \*\*\*\* shows the word which can not be translated.
3. In the drawings, any words are not translated.

---

CLAIMS

---

[Utility model registration claim]

[Claim 1] It is the vacuum cleaner with an ultraviolet disinfection function which is an erect type vacuum cleaner which connects the erection section and a horizontal level by the pivot, and is characterized by the slope regulation of the erection section being possible, it preparing a handle in erection section upper limit, preparing a wheel in an erection section pars basilaris ossis occipitalis, preparing a nozzle in the pars basilaris ossis occipitalis of a horizontal level, preparing a mounting groove before a nozzle, preparing a germicidal lamp, and performing dust collecting and sterilization to coincidence.

---

[Translation done.]

**\* NOTICES \***

JP0 and NCIPI are not responsible for any damages caused by the use of this translation.

1. This document has been translated by computer. So the translation may not reflect the original precisely.
2. \*\*\*\* shows the word which can not be translated.
3. In the drawings, any words are not translated.

---

**DETAILED DESCRIPTION**

---

[Detailed explanation of a design]

[0001]

[Industrial Application]

This design is related with the vacuum cleaner with an ultraviolet disinfection function which established sterilization and a dust-collecting operation.

[0002]

[Description of the Prior Art]

In order to intercept the propagation path of a disease germ and to reduce the cause of infection in a facility of a hospital, drugs manufacture, etc. conventionally, cleaning and sterilization are usually performed periodically and the sterilization activity by ultraviolet rays was made after dust-collecting processing in front faces, such as a floor.

[0003]

[Problem(s) to be Solved by the Device]

In the above-mentioned Prior art, since dust collecting and sterilization were performed separately, time and effort was taken and time amount and cost started.

[0004]

[Means for Solving the Problem]

About this design, a germicidal lamp is prepared in the bottom of a cleaner, and it sterilizes at the same time it lets a cleaner slide to the floor and collects a floor front face.

[0005]

[Function]

By having prepared the germicidal lamp in the bottom of a cleaner, cleaning and sterilization can carry out to coincidence easily.

[0006]

[Example]

The cleaner (1) of this design is constituted from the erection section (11) and a horizontal level (12) by that it will be shown in drawing 1 like the conventional erect type cleaner, the erection section (11) and a horizontal level (12) are connected by the pivot, and the erection section (11) can be adjusted whenever [tilt-angle]. A handle (13) is prepared in the upper limit of the erection section (11), and a wheel (14) is prepared in the back end of the pars basilaris ossis occipitalis of the erection section (11). Moreover, the nozzle (15) which carries out opening is prepared in a floor front face at the bottom of a horizontal level (12).

[0007]

The description of this design prepares a long groove before the nozzle (15) of a cleaner (1) pars basilaris ossis occipitalis, is used as a mounting groove (16) and prepares a germicidal lamp (17) in this mounting groove (16). When a dust-collecting activity is done, and this germicidal lamp (17) irradiates ultraviolet rays on a floor front face at coincidence, dust collecting and sterilization are performed to coincidence. Moreover, an alarm function when the circuit of an alarm is prepared and a germicidal lamp (17) goes out may be given.

[0008]

[Effect of the Device]

The vacuum cleaner with an ultraviolet disinfection function of this design can perform dust collecting and sterilization of a floor to coincidence.

---

[Translation done.]

**\* NOTICES \***

JP0 and NCIPI are not responsible for any damages caused by the use of this translation.

1. This document has been translated by computer. So the translation may not reflect the original precisely.
2. \*\*\*\* shows the word which can not be translated.
3. In the drawings, any words are not translated.

---

**TECHNICAL FIELD**

---

**[Industrial Application]**

This design is related with the vacuum cleaner with an ultraviolet disinfection function which established sterilization and a dust-collecting operation.

[0002]

---

[Translation done.]

## \* NOTICES \*

JPO and NCIPI are not responsible for any damages caused by the use of this translation.

1. This document has been translated by computer. So the translation may not reflect the original precisely.
2. \*\*\*\* shows the word which can not be translated.
3. In the drawings, any words are not translated.

---

PRIOR ART

---

## [Description of the Prior Art]

In order to intercept the propagation path of a disease germ and to reduce the cause of infection in a facility of a hospital, drugs manufacture, etc. conventionally, cleaning and sterilization are usually performed periodically and the sterilization activity by ultraviolet rays was made after dust-collecting processing in front faces, such as a floor.

[0003]

---

[Translation done.]

**\* NOTICES \***

**JPO and NCIPI are not responsible for any damages caused by the use of this translation.**

1. This document has been translated by computer. So the translation may not reflect the original precisely.
2. \*\*\*\* shows the word which can not be translated.
3. In the drawings, any words are not translated.

---

**EFFECT OF THE INVENTION**

---

**[Effect of the Device]**

The vacuum cleaner with an ultraviolet disinfection function of this design can perform dust collecting and sterilization of a floor to coincidence.

---

[Translation done.]

**\* NOTICES \***

JPO and NCIPI are not responsible for any damages caused by the use of this translation.

1. This document has been translated by computer. So the translation may not reflect the original precisely.
2. \*\*\*\* shows the word which can not be translated.
3. In the drawings, any words are not translated.

---

**TECHNICAL PROBLEM**

---

[Problem(s) to be Solved by the Device]

In the above-mentioned Prior art, since dust collecting and sterilization were performed separately, time and effort was taken and time amount and cost started.

[0004]

---

[Translation done.]

**\* NOTICES \***

JP0 and NCIPI are not responsible for any damages caused by the use of this translation.

1. This document has been translated by computer. So the translation may not reflect the original precisely.
2. \*\*\*\* shows the word which can not be translated.
3. In the drawings, any words are not translated.

---

**MEANS**

---

**[Means for Solving the Problem]**

About this design, a germicidal lamp is prepared in the bottom of a cleaner, and it sterilizes at the same time it lets a cleaner slide to the floor and collects a floor front face.

[0005]

---

[Translation done.]

**\* NOTICES \***

JP0 and NCIPI are not responsible for any damages caused by the use of this translation.

1. This document has been translated by computer. So the translation may not reflect the original precisely.
2. \*\*\*\* shows the word which can not be translated.
3. In the drawings, any words are not translated.

---

**OPERATION**

---

**[Function]**

By having prepared the germicidal lamp in the bottom of a cleaner, cleaning and sterilization can carry out to coincidence easily.

[0006]

---

[Translation done.]

## \* NOTICES \*

JP0 and NCIPI are not responsible for any damages caused by the use of this translation.

1. This document has been translated by computer. So the translation may not reflect the original precisely.
2. \*\*\*\* shows the word which can not be translated.
3. In the drawings, any words are not translated.

---

**EXAMPLE**

---

**[Example]**

The cleaner (1) of this design is constituted from the erection section (11) and a horizontal level (12) by that it will be shown in drawing 1 like the conventional erect type cleaner, the erection section (11) and a horizontal level (12) are connected by the pivot, and the erection section (11) can be adjusted whenever [tilt-angle]. A handle (13) is prepared in the upper limit of the erection section (11), and a wheel (14) is prepared in the back end of the pars basilaris ossis occipitalis of the erection section (11). Moreover, the nozzle (15) which carries out opening is prepared in a floor front face at the bottom of a horizontal level (12).

[0007]

The description of this design prepares a long groove before the nozzle (15) of a cleaner (1) pars basilaris ossis occipitalis, is used as a mounting groove (16) and prepares a germicidal lamp (17) in this mounting groove (16). When a dust-collecting activity is done, and this germicidal lamp (17) irradiates ultraviolet rays on a floor front face at coincidence, dust collecting and sterilization are performed to coincidence. Moreover, an alarm function when the circuit of an alarm is prepared and a germicidal lamp (17) goes out may be given.

[0008]

---

[Translation done.]

**\* NOTICES \***

JPO and NCIPI are not responsible for any damages caused by the use of this translation.

1. This document has been translated by computer. So the translation may not reflect the original precisely.
2. \*\*\*\* shows the word which can not be translated.
3. In the drawings, any words are not translated.

---

**DESCRIPTION OF DRAWINGS**

---

[Brief Description of the Drawings]

[Drawing 1] It is the side elevation of this design.

[Drawing 2] It is the bottom view of this design.

[Drawing 3] It is drawing which used some side elevations of this design as the sectional view.

[Description of Notations]

- (1) Cleaner
- (11) Erection section (12) horizontal levels (13) handles
- (14) Wheel (15) nozzles (16) mounting grooves
- (17) Germicidal lamp

---

[Translation done.]

## \* NOTICES \*

JPPO and NCIPI are not responsible for any damages caused by the use of this translation.

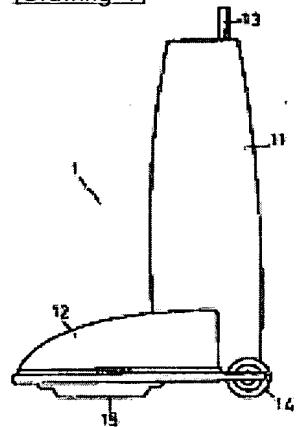
1. This document has been translated by computer. So the translation may not reflect the original precisely.
2. \*\*\*\* shows the word which can not be translated.
3. In the drawings, any words are not translated.

---

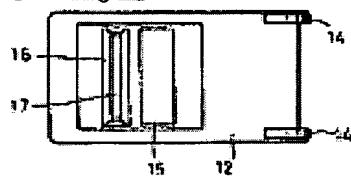
DRAWINGS

---

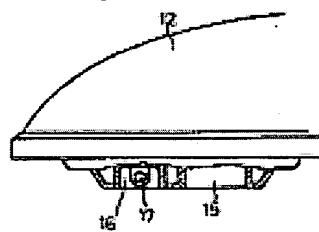
[Drawing 1]



[Drawing 2]



[Drawing 3]



---

[Translation done.]

---